#### HISTORIC AMERICAN ENGINEERING RECORD

#### Ν D E Χ T $\mathbf{O}$ Ρ Н $\mathbf{O}$ G R Н S

Navaio Bridge Spanning the Colorado River at U.S. Highway 89 Alternate Page vicinity Coconino County Arizona

HAER No. AZ-28

Documentation: 30 exterior photos (1990)

I6 photographic copies of photographs (1927 - ca 1935) 16 photographic copies of construction drawings (1927)

71 data pages (1993)

I field record (videotape of construction film - I927-28)

Clayton B. Fraser, Fraserdesign, photographer, July 1990

- AZ-28-1 OVERALL VIEW OF BRIDGE AND GRAND CANYON. VIEW TO NORTH.
- AZ-28-2 OVERALL VIEW OF BRIDGE AND GRAND CANYON. VIEW TO SOUTH.
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- AZ-28-30 DETAIL OF COMMEMORATIVE PLATE ON NORTH PORTAL. VIEW TO SOUTH.

- AZ-27-31 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, April 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). INITIAL CONSTRUCTION ON SOUTH ARM.
- AZ-27-32 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, April 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). CONSTRUCTION OF SOUTH ARM.
- AZ-27-33 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. May 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). CONSTRUCTION OF SOUTH ARM, SHOW-ING ERECTION TRAVELER.
- AZ-27-34 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. May 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). CONSTRUCTION ON EIGHTH PANEL OF SOUTH ARM.
- AZ-27-35 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, June 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). ELEVENTH (LAST) PANEL OF SOUTH ARM UNDER CONSTRUCTION, SHOWING ERECTION TRAVELER.
- AZ-27-36 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, June 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). COMPLETION OF SOUTH ARM.
- AZ-27-37 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. July 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). CONSTRUCTION ON THIRD PANEL OF NORTH ARM.
- AZ-27-38 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. July 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). VIEW FROM CANYON OF THIRD PANEL OF NORTH ARM UNDER CONSTRUCTION.
- AZ-27-39 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. July 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). ASSEMBLY OF TRAVELER ON NORTH ARM, SHOWING TEMPORARY TIEBACKS AND ANCHORAGE ARMS.
- \*AZ-27-40 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, ca. July 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). CONSTRUCTION OF NORTH ARM, FROM SOUTH ARM.

- AZ-28-41 Photocopy of photograph, R.A. Hoffman, Bridge Engineer, Arizona Highway Department, photographer, 12 September 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). INSERTION OF CENTER PIN.
- AZ-28-42 Photocopy of photograph, photographer unknown, 12 September 1928 (original print located at Arizona Department of Transportation, Phoenix AZ). BRIDGE IMMEDIATELY AFTER INSERTION OF CENTER PIN.
- AZ-28-43 Photocopy of photograph, photographer unknown, ca January 1929 (original print located at Arizona Department of Transportation, Phoenix AZ). COMPLETED BRIDGE.
- AZ-28-44 Photocopy of photograph, photographer unknown, 14-15 June 1929 (original print located at Utah State Historical Society Photograph Collection, Salt Lake City UT). DEDICATION CEREMONY AT BRIDGE.
- AZ-28-45 Photocopy of photograph, photographer unknown, 14-15 June 1929 (original print located at Arizona Department of Transportation, Phoenix AZ). AIRPLANE STUNT DURING DEDICATION CEREMONY AT BRIDGE.
- AZ-28-46 Photocopy of photograph, photographer unknown, CA. 1935 (original print located at Arizona Department of Transportation, Phoenix AZ). BRIDGE WITH NEW COMMEMORATIVE PLATE INSTALLED IN 1934.
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- AZ-28-48 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). PLAN AND PROFILE.
- AZ-28-49 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arizzona Department of Transportation, Phoenix AZ). GENERAL LAYOUT.
- AZ-28-50 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). STRESSES AND SECTIONS.
- AZ-28-51 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). STRESS DIAGRAMS.

- AZ-28-52 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). STRESS DIAGRAMS.
- AZ-28-53 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). FOUNDATIONS.
- AZ-28-54 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). FLOOR SYSTEM.
- AZ-28-55 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). APPROACH SPANS.
- AZ-28-56 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). APPROACH SPANS.
- AZ-28-57 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arizzona Department of Transportation, Phoenix AZ). ARCH DETAIL,  $U_0 U_2$ .
- AZ-28-58 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). ARCH DETAIL,  $U_3$   $U_5$ .
- 'AZ-28-59 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ).  $U_{\rm s}$   $U_{\rm s}$ .
- AZ-28-60 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). U<sub>9</sub> U<sub>11</sub>.
- AZ-28-61 Photocopy of construction drawing, Arizona Highway Department, May 1927, microfiche of original drawing located at Arixzona Department of Transportation, Phoenix AZ). HANDRAIL DESIGN.
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ADDENDUM TO

NAVAJO BRIDGE

Spanning Colorado River on US Alt 89 at Marble Canyon

Marble Canyon vicinity

Coconino County

Arizona

Photographs HAER AZ-28-1 to AZ-28-62 were previously transmitted to the Library of Congress.

Photographs HAER AZ-28-63 to AZ-28-64 Brian C. Grogan, photographer, summer 1993

AZ-28-63 SOUTH ELEVATION, FACING NORTH

AZ-28-64 SOUTH ELEVATION, FACING NORTH

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All color xeroxes were made from a duplicate color transparency.

Brian Grogan, Photographer, July 1990

AX-28-63 (CT) OVERALL VIEW OF BRIDGE AND GRAND CANYON.